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No. 49] NEW DELHI, SATURDAY, DECEMBER 9, 1978 (AGRAHAYANA 18, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके ।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2

PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 9th December 1978

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

2nd November, 1978

1186/Cal/78. Diamond Shamrock Technologies S.A. Improvements in or relating to the production of electrolytic manganese dioxide. (November 2, 1977).

1187/Cal/78. Mahle GMBH. Piston for internal combustion engines.

3rd November, 1978

1188/Cal/78. Georg Fischer Aktiengesellschaft. Blade structure for centrifugal wheel.

1189/Cal/78. Georg Fischer Aktiengesellschaft. Slinging wheel for centrifugal jet machines.

1190/Cal/78. Utica Tool Company, Inc. Hand operated cutting tool.

4th November, 1978

1191/Cal/78. Beloit Corporation. Combined breaker size press coater.

1192/Cal/78. Beloit Corporation. Web drying roll 883,127.

1193/Cal/78. Beloit Corporation. Paper making press section 887,048.

1194/Cal/78. Beloit Corporation. Method of continuous winding 892,216.

1195/Cal/78. Beloit Corporation. Winder with horizontal rider roll Adjustment 895,598.

1196/Cal/78. The Cross Company. Pallet locator and clamping assembly.

1197/Cal/78. Robert Bosch GMBH. Chamfer-controlled fuel injection pump for internal combustion engines. (April 20, 1978).

6th November, 1978

1198/Cal/78. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. A travelling welding machine for welding the two abutting ends of rails of a railwey track.

1199/Cal/78. General Electric Company. Production of halogens by electrolysis of alkali metal halides in an electrolysis cell having catalytic electrodes bonded to the surface of a solid polymer electrolyte membrane.

1200/Cal/78. General Electric Company. Generation of halogen by electrolysis of hydrogen halides in a cell having catalytic electrodes bonded to a solid polymer electrolyte.

7th November, 1978

1201/Cal/78. F. Hoffmann-Lt Roche & Co. Aktiengesellschaft. 2-Imino-imidazolidine derivatives.

1202/Cal/78. BBC Brown, Boveri & Company Limited. Electrical gas-blast circuit breaker.

1203/Cal/78. Phillips Petroleum Company. Method and apparatus for drying particulate material.

1204/Cal/78. Hylsa, S. A. Process for reducing particulate metal ore.

1205/Cal/78. Vsevolod Andreevich Markelov & Anatoly Alexandrovich Baranovsky. Level detector for free-flowing and viscous materials.

8th November, 1978

1206/Cal/78. Westinghouse Electric Corporation. Capacitor structures with improved electrical stress capability.

1207/Cal/78. A. V. Shafranovsky, (2) V. M. Olevsky, (3) V. K. Chubukov and J. A. Baskov. Apparatus for heat-mass exchange processes with participation or liquid.

1208/Cal/78. A. V. Shafranovsky, (2) V. R. Ruchinsky, (3) V. M. Olevsky, (4) V. P. Gavrilin, (5) V. K. Chubukov, (6) V. N. Gromoglasova, (7) V. S. Bushev, (8) J. A. Baskov, (9) V. V. Kurkovskaya, (10) B. A. Gurkov and I. F. Evkin. Film-type rotary mass-and-heat exchange column.

1209/Cal/78. A. V. Shafranovsky, (2) V. M. Olevsky, (3) V. K. Chubukov, (4) J. A. Baskov and K. V. Dmitriev. Rotor film apparatus for processes with participation of liquid and gas.

1210/Cal/78. Monsanto Company. Thermoplastic elastomeric blends of olefin rubber and polyolefin resin.

1211/Cal/78. Nisseki House Industry Co., Ltd. Panels for buildings and a method of using them.

1212/Cal/78. Philadelphia Suburban Corporation. Fighting of fires on hydrophilic liquids. (May 8, 1978).

1213/Cal/78. Nisseki House Industry Co., Ltd. Connection for panels for buildings.

APPLICATION FOR PATENTS FILED AT THE (DELHI BRANCH)

22nd September, 1978

694/Del/78. Automotive Products Limited. Brake fluid reservoirs. (October 25, 1977).

695/Del/78. J. S. Kang. Acroplane fuel saving device.

696/Del/78. J. S. Kang. Kang Automatic powerless tubewell.

25th September, 1978

697/Del/78. S. Singh. Wooden comb.

26th September, 1978

698/Del/78. Bimal Mehra. An apparatus for grinding of lenses.

699/Del/78. Purolator India Limited. Seperators for use in batteries.

700/Del/78. Bimal Mehra. An apparatus for grinding of lenses.

701/Del/78. Pont-A-Mousson S.A. Installation for the centrifugal casting of tubular members.

702/Del/78. Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for continuous recovery of heavy metal phases, particularly of metallic raw tin, low in iron.

27th September, 1978

703/Del/78. Triomf Fertilizer (Proprietary) Limited. Treatment of phosphoric acid.

704/Del/78. R. N. Kher. A liquid distribution apparatus.

705/Del/78. R. N. Kher. A liquid distribution apparatus.

28th September, 1978

706/Del/78. O. Corporation. Engine operated by a non-polluting recyclable fuel.

707/Del/78. Dorr-Oliver Incorporated. Ultrafiltration process for the preparation of cream cheese.

708/Del/78. Chemie Linz Aktiengesellschaft. Preparation of anhydrous aluminium fluoride.

29th September, 1978

709/Del/78. K. V. Venugopalan and K. V. Anand (Brothers). Electronic stencil cutting machine.

30th September, 1978

710/Del/78. Thomas Broadbent & Sons Limited. Improvements in and relating to solid bowl scroll decanter centrifuges. (October 4. 1977).

3rd October, 1978

711/Del/78. Photon Power, Inc. Solar cell array. (May 26, 1978.).

712/Del/78. Pfizer Corporation. Therapeutic Agents. (November 5, 1977).

4th October, 1978

713/Del/78. Airwick AG. Insecticidal baits of reduced toxicity.

714/Del/78. Smith Kline & French Laboratories Ltd. Process for preparing amidinosulphonic acid derivatives. [Divisional date February 19, 1977]. (March 11, 1976).

715/Del/78. Airwick AG. Bait compositions for anthropophilic flies.

716/Del/78. Council of Scientific and Industrial Research. A level monitoring system for monitoring levels of liquids.

5th October, 1978

717/Del/78. Iqbal Singh. A gadget for barbed wire fencing.

718/Del/78. Smithkline Corporation. Process for preparing new cephalosporin compounds. (October 11, 1977).

719/Del/78. Halliburton Company. Gelled aqueous inorganic acid solutions and methods of using the same.

720/Del/78. Union Carbide Corporation. Weeping-resistant vapor-liquid contacting tray.

721/Del/78. Council of Scientific and Industrial Research. Improvements in or relating to chemical colouring of aluminium and its alloys.

722/Del/78. Council of Scientific and Industrial Research Improvements in or relating to the use of sodium phosphate for chemical phosphating.

723/Del/78. Council of Scientific and Industrial Research. An improved process for the manufacture of diosgenin from contus speciosus.

6th October, 1978

724/Del/78. Harsukh. Gun (Firearm) ten ten fire gun.

725/Del/78. A. K. Ghai. An electrostatic photocopying machine.

726/Del/78. A. K. Ghai. An electrostatic photocopying machine.

727/Del/78. Kuldeep Verma. A filteration apparatus.

728/Del/78. Kuldeep Verma. A filteration apparatus.

729/Del/78. Kuldeep Verma. A filteration apparatus.

730/Del/78. Huns Packaging Pvt. Ltd., A tray or crate.

731/Del/78. G. K. Kabra. A lighting means.

732/Del/78. S. Jain. An electrical dipper.

733/Del/78. Bharat Heavy Electricals Limited. A continuous vapour absorption refigeration system.

6th October, 1978

734/Del/78. Bimal Mehra. A bifocal lens.

735/Del/78. Bimal Mehra. A slab off multifocal lens.

736/Del/78. Mr. V. Seshamani. An electrical plug.

737/Del/78. Huns Packaging Pvt. Ltd. A tray or crate.

738/Del/78. S. Jain. An electrical dipper.

739/Del/78. The University of Manchester Institute of Science and Technology. and Simon-Hartley Limited. Growth of biological material. (October 20. 1977).

740/Del/78. Sigeru Onishi. An engine drive type generator blower.

741/Del/78. The Standard Oil Company. Acrylic acid recovery and purification.

APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

26th October, 1978

199/Mas/78. Mark Janavar Comez. Improvements in or relating to sign flashers.

28th October, 1978

200/Mas/78. Madhuri Mathur. Meat mincing blade.

ALTERATION OF DATE

145729
249/Cal/78. } Ante-dated to January 28, 1976.

145730
250/Cal/78. } Ante-dated to January 28, 1976.

145732
143/Del/77. } Ante-dated to November 19, 1974.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect or each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India) Requisition for the supply of the printed specifications should be accompanies by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be assertained on application to that office.

CLASS 71-C & 127-J. 145722.

Int. Cl.-E02f 3/00.

MOTION LIMIT SYSTEM FOR POWER SHOVELS.

Applicant : MARION POWER SHOVEL COMPANY, INC., OF 617, WEST CENTER STREET, IN THE CITY OF MARION AND STATE OF OHIO, UNITED STATES OF AMERICA.

Inventors : GEORGE BERNARD BARON AND PAUL WAYNE PADRUTT.

Application No. 1261/Cal/75 filed June 26, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A power shovel including a lower frame provided with a pair of transversely spaced crawler units and a centre journal an upper frame mounted on the lower frame for rotational movement about said centre journal; means mounted on the upper and lower frame for rotating the upper frame relative to the lower frame; a front end assembly mounted on the upper frame, said front end assembly including a stiffleg pivotally connected at an inner end thereof to the upper frame, a dipper handle operatively connected to the stiffleg for pivotal movement relative thereto and a dipper pivotally connected to the dipper handle; a first system mounted on the upper frame and operatively connected to the front end assembly for crowding and retracting said dipper; and a second system mounted on the upper frame and operatively connected to the front end assembly for hoisting and lowering the dipper; one of the systems including a component movable between predetermined limits proportionally corresponding to predetermined limits of movement of the dipper; a control lever mounted on the upper frame and operatively connected to means for actuating said one system, said control lever having operative extreme positions and an intermediate neutral position; motion of the dipper being limited by means operatively interconnecting said one system component and control lever responsive to a movement of said connected between said predetermined limit for increasingly biasing said control lever steadily away from an operative position thereof, as said component approaches one of said predetermined limits or movement thereof.

CLASS 94A. 145723.

Int. Cl.-B24b 41/00.

AN IMPROVED PROCESS FOR HEAT-TREATMENT OF HIGH CHROMIUM HIGH CARBON CAST ALLOY STEEL GRINDING MEDIA BALLS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA.

Inventors : DR. SUKUMAR JANA, ANATH BANDHU MANDAL, AMITABHA BASU, BENOY KUMAR GHOSH, RAM BABU GUPTA, GURUDAS BANERJEE AND SHYAMSUNDER BAJPAYEE.

Application No. 740/Cal/76 filed April 28, 1976.

Complete specification left March 17, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

An improved process for heat treatment of high chromium high carbon cast alloy steel grinding media balls comprises slowly heating foundry cast balls to 950°C, furnace cooling and then further treating for stress relief by holding them at 200-250°C, characterised in that the balls are subjected to an additional intermediate holding treatment in a salt-bath and then quenched in water.

CLASS 181. 145724.

Int. Cl-F16j 15/16.

A LIQUID SEALING DEVICE.

Applicant : R. A. LISTER & COMPANY LIMITED, OF LONG STREET, DURSLEY, GLOUCESTERSHIRE, GL11 4HS, ENGLAND.

Inventor : ALBERTO GORGE MORRIS.

Application No. 1927/Cal/76 filed October 25, 1976.

Convention date September 23, 1976/(39529/76) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

A liquid sealing device, for inhibiting passage of liquid between a rotatably mounted shaft and an aperture through

which the shaft extends with working clearance, including an annular shoulder projecting from the shaft, means adjacent the shaft formed with a cylindrical bore in which the shoulder is rotatable with working clearance, a helical groove extending around the periphery of the annular shoulder which resists the passage of liquid between the annular shoulder and the bore when the shaft is rotated in one direction, closure means for the boreadjacent one end of said annular shoulder and defining said aperture through which the shaft extends with working clearance, an annular sealing element disposed between the closure means and the said one end of the annular shoulder to resist passage of liquid between the sealing element and the annular shoulder, and restraining means on said closure means which restrains said sealing element against rotation, said sealing element engaging the closure means, a peripheral portion of said shaft and at least a major portion of said one end of the annular shoulder.

CLASS 107G. 145725.

Int. Cl.-F02n 15/00.

PINION ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE STARTER MOTOR.

Applicant : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

Inventor : DAVID MARSHALL JENSON.

Application No. 2095/Cal/76 filed November 23, 1976.

Convention date December 20, 1975/(52460/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A pinion assembly, for an internal combustion engine starter motor, comprising a shaft which, in use is rotated by the starter motor, a sleeve non-rotatably mounted on the shaft and having an external helical form thereon, a washer encircling the shaft and positioned between one end of said sleeve and an abutment on the shaft, an annulus having an internal helical form mating with the external helical form of said sleeve whereby relative rotation of the sleeve and the annulus results in relative axial movement of the sleeve and the annulus, a carrier interconnecting said annulus and a pinion gear wheel which is supported by the shaft, a pinion return spring acting between said washer and said annulus to urge the annulus in one axial direction relative to the sleeve, a buffer ring encircling the shaft at the end of the sleeve remote from said washer, and a buffer spring acting between said buffer ring and a further abutment on the shaft, said buffer ring abutting a third abutment on the shaft and the sleeve being shorter than the spacing between the washer and the buffer ring when the washer engages the first mentioned abutment and the buffer ring engages the third abutment so that said washer is free to rotate relative to the shaft, since the loading of the buffer spring is accepted by the third abutment and not by the first mentioned abutment by way of the washer and said sleeve.

CLASS 98G. 145726.

Int. Cl.-F28f 9/04.

ROTARY REGENERATIVE HEAT EXCHANGE APPARATUS.

Applicant : THE AIR PREHEATER COMPANY, INC., OF AND OVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventor : TADEK CASIMIR BRZYTWA.

Application No. 2203/Cal/76 filed December 15, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Rotary regenerative hat exchange aparatus including a cylindrical rotor housing, a rotor disposed about a vertical rotor post positioned within the cylindrical rotor housing, a housing for a support bearing subjacent the rotor having an annular shell with a central chamber therein concentric with the rotor, an annular support bearing in said shell adapted to support the rotor for rotation about its axis, means for aligning the rotor and the support bearing including a centering device in the central chamber adapted to axially abut the rotor post and laterally move said post into concentric alignment with the central chamber.

CLASS 188. 145727.

Int. Cl.-C23b 5/30, C23c 15/00, 7/00, 17/00.

METHOD FOR THE PREVENTION OF FOULING AND CORROSION UTILIZING TECHNETIUM-99.

Applicant : CARL BRAMLETT WOOTTEN, OF ROUTE 1, BOX 249 A, KESWICK, VIRGINIA 22947, UNITED STATES OF AMERICA, (2) GILBERT ARTHUR THOMAS, OF 31132 FLYING CLOUD DRIVE, LAGUNA NIGUEL, CALIFORNIA 92677, USA AND THEODORE CAPLOW, OF 2 DOGWOOD LANE CHARLOTTESVILLE, VIRGINIA 22901, U.S.A.

Inventor : CARL BRAMLETT WOOTTEN.

Application No. 33/Cal/77 filed January 12, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims. No drawings.

A method for rendering a surface to be exposed to a fluid environment, containing corrosive environment and biological fouling organisms, capable of resisting corrosion and attack by said organisms, which comprises coating said surface with Technetium-99 prior to exposure of said surface to said environment, in an amount effective to inhibit corrosion of said substrate and to prevent the growth of said organisms simultaneously.

CLASS 138E. 145728.

Int. Cl.-E01b 31/00.

AN IMPROVED DOGSPIKE.

Applicant & Inventor : HAROLD WILLIAM GEORGE LOWE, OF 14 MUNSEY STREET, APPLECROSS, IN THE STATE OF WASTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA AND ALFORD DONALD GRATTON WILSON, OF 152 JOEL TERRACE, MT. LAWLEY, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Application No. 132/Cal/77 filed January 29, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A dogspike having a longitudinal groove formed in one face of the shank and extending from the head of the dogspike to at least part way down the length thereof, the upper end of the groove being open and the lower end being formed with a portion of progressively diminishing depth, the groove being intended to receive a key member of corresponding cross sectional configuration to be driven down the groove when the dogspike is in position.

CLASS 39K. 145729.

Int. Cl.-C01b 25/18.

PROCESS FOR THE PRODUCTION OF PHOSPHORIC ACID AND SALTS THEREOF.

Applicant : PRZEDS IEBIORS TWO PROJEKTOWANIA I DOSTAW KOMPLETNYCH OBIEKTOW PREZEMYSLOWYCH "CHEMADEX" W WARSZAWIE, ODDZIAL NR. 1 W KRAKOWIE KRAKOW—POLAND.

Inventors : JERZY SCHROEDER, JERZY SYNOWIEC, TADEUSZ ZRUBEK, HENRYK GORECKI, ZDZISLAW WOLNICKI AND ROMAN HNATOWICZ.

Application No. 249/Cal/78 filed March 8, 1978.

Division of Aplication No. 148/Cal/76 filed January 28, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A process for the production of phosphoric acid and salts thereof comprising the steps of (1) decomposing the phosphate rock with an aqueous solution containing ammonium sulphate and sulphuric acid in a molar ratio of 0.7 to 1.0, whereby a first precipitate of phospho-gypsum is formed; (2) filtering off said first precipitate; (3) dividing the filtrate into two streams; designated as acid stream and fertilizer stream; the acid stream containing not more than 30% by weight of the two streams (4) adiabatically cooling the acid stream below 30°C (5) adding a water miscible organic solvent to the cooled acid stream below 30°C in the volume ratio of from about 0.8 to 1.6 of solvent to said acid stream whereby a second precipitate comprising neutral ammonium sulphate and mineral impurities is formed; (6) filtering off said second precipitate to yield an organic solvent-aqueous solution filtrate containing phosphoric acid; and (7) separating said organic solvent from said phosphoric acid by distillation, and if desired, neutralizing said organic solvent aqueous filtrate with a basic mineral selected from the group consisting of ammonia, alkali metal hydroxide and alkali metal carbonates to form crystalline phosphate salts and filtering off said salts leaving a filtrate of organic solvent and water.

CLASS 39D & 123. 145730.

Int. Cl.-C01f 11/18, C05d 3/02, 7/00.

A PROCESS FOR THE PRODUCTION OF CHALK.

Applicant : PRZEDS IEBIORS TWO PROJEKTOWANIA I DOSTAW KOMPLETNYCH OBIEKTOW PRZEMYSLOWYCH "CHEMADEX" W WARSZAWIE, ODDZAWIE, NR. 1 W KRAKOWIE KRAKOW—POLAND.

Inventors : JERZY SCHHROEDER, JERZY SYNOWIEC, TADEUSZ ZRUBEK, HENRYK GORECKI, ZDZISLAW WOLNICKI AND ROMAN HNATOWICZ.

Aplication No. 250/Cal/78 filed March 8, 1978.

Division of Application No. 148/Cal/76 filed January 28, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A process for the production of chalk characterized in that the process consists of :—

the steps of decomposition of phosphate rock by means of solution comprising ammonium sulphate and sulphuric acid, conducted at temperature of 72-82°C, with maintainance in liquid phase of phosphate ion concentration within the range of 10-40% by weight of P_2O_5, sulphate ion concentration within the range of 5—28% by weight of SO_3 as well as ammonium ion concentration within the range of 1—9% by weight of N;

the step of filtration and washing of phospho-gypsum precipitate crystallizing in the decomposition step with aqueous solution of ammonium sulphate;

the step of conversion of phospho-gypsum with ammonia and carbon dioxide into chalk and aqueous solution of ammonium sulphate of the concentration of from 30 upto 40% by weight of $(NH4)_2$ SO4 with which solution phospho-gypsum precipitate is washed,

the step of treating the said solution of ammonium sulphate with sulphuric acid to preserve a molar ratio of ammonium sulphate to sulphuric acid of from 0.7 to 1.0, and recycling the said treated ammonium sulphate sulphuric acid solution to treat a further quantity of phosphate rock.

CLASS 32F, 145731.

Int. Cl.-C07c 39/30.

AN IMPROVED PROCESS FOR THE PREPARATION OF 2, 4-DICHLOROPHENOL OF MORE THAN 98% PURITY.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA.

Inventors : SAJID HUSAIN, MOHAMMED KIFAYATULLA, PILLARI SETTY ANAND SWAROOP, MUMTAZ ABDUL KHALEEL AKMAL, RAJAGOPALAN VAIDYESWARAN.

Application No. 82/Del/77filed April 29, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims. No drawings.

An improved process for the preparation of 2, 4-dichlorophenol of more than 98% purity by direct chlorination of phenol, characterised in that the chlorination is carried out in the presence of a polar solvent at a temperature ranging from 30°C to 70°C.

CLASS 32C. 145732.

Int. Cl.-C07c 139/16.

A PROCESS FOR THE PRODUCTION OF BARIUM/CALCIUM PETROLEUM SULPHONATES USEFUL AS DETERGENT DISPERSANT ADDITIVES FOR MOTOR OILS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors : ONKAR NATH ANAND, VED PARKASH MALIK AND KULWANT SINGH ANAND.

Application No. 143/Del/77 filed June 27, 1977.

Division of Application No. 2553/Cal/74 filed November 19, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

An improved process for the production of barium/calcium petroleum sulphonate as concentrates in hydrocarbon oil useful as detergents dispersant additives for motor oils characterised in that sodium petroleum sulphonates crude having an average mol. wt. of 445-510 are directly reacted with barium/calcium chloride at a pH of 7-7.5.

CLASS 130-C & 188. 145733

Int. Cl.-C23c 13/08.

A DEVICE FOR OBSERVING VAPOURISATION PROCESSES IN A HIGH VACUUM METAL VAPOURISING APPARATUS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors : AWATAR SINGH.

Application No. 162/Del/77 filed July 20, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.

A device, to be fitted with a high vacuum metal vaporising apparatus such as stainless steel bell jar for observing vaporisation processes which give off condensible vapours, consisting of a vacuum tight rotating metallic shaft, machined from a non-magnetic stainless steel rod inserted into an ultrasonically drilled hole in thick glass plate and holding at its end a rotatable metal disc with a circular hole in it with the help of a screw and the whole system is mounted vacuum tight with the help of an O-ring and a threaded cap on the threaded window of the stainless steel bell jar, so that the metals for example, aluminium, gold, silver and copper when evaporated by heating it directly or indirectly above its melting point inside the said bell jar under high vacuum, their vapours collect on the metallic disc and on the small portion of thick glass plate through the circular hole of the metallic disc thereby making the vaporisation process invisible from the other side of the thick glass plate whereby the vaporisation process can be re-observed from the thick glass plate side by slightly rotating the metal disc to a clear section of the said thick glass plate.

CLASS 179F. 145734.

Int. Cl.-B65d 53/00, 55/00.

PILFER PROOF CLOSURES.

Applicant & Inventor : CHANDRAKANT SOMABHAI PATEL AND RASHMIKANT SOMABHAI PATEL, 19, SAMPATRAO COLONY, BARODA-390 005, STATE OF GUJARAT, INDIA.

Application No. 10/Bom/76 filed January 9, 1976.

Complete specification left July 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims.

A pilferproof closure for use in combination with a standard container having upper threaded neck portion and a locking collar below said threaded portion comprising :

(a) a body having an upper internally threaded portion and a lower skirt portion.

(b) a flexible locking member spaced inwardly from said skirt portion and extending below the lower edge of said skirt portion to give an indication of tampering the said locking member adapted to flex and slide over the collar as the closure is threaded onto the container,

(c) said locking member adapted for flexibility by having a thin annular ring such that the thin material of the annular ring extends between the adjacent locking hooks,

(d) said locking member having locking hooks with a top surface adapted to engage the bottom surface of the said locking collar of the container to lock the closure in place when the closure is completely threaded onto the container,

(e) said locking member releasably secured to the lower edge of the said upper threaded portion by means of frangible connecting means.

(f) and said skirt portion adapted to extend past and protect said fangible connecting means whereby said frangible connecting means will be severed by the locking collar acting on said top surface of the locking hooks when the closure is unthreaded from the container to disconnect said locking member from said body.

CLASS $32F_9d$ & 189. 145735.

Int. Cl.-C07b 3/00, C07c 45/00, 49/00.

A PROCESS FOR THE PREPARATION OF 9-OXO-ISOLONGIFOLENES.

Applicant : M/S CAMPHOR & ALLIED PRODUCTS LIMITED, AT 133, MAHATMA GANDHI ROAD, BOMBOY-400 023, MAHARASHTRA, INDIA.

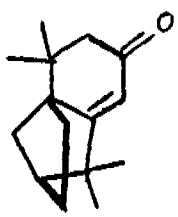
Inventors : SUDHIR NARAYAN BANNORE, SHREE KRISHNA PETH AND SUKH DEV.

Application No. 87/Bom/76 filed March 11, 1976.

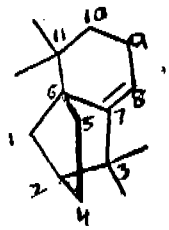
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

7 Claims.

A process for the preparation of 9-oxo-isolongifolenes (α, β-unsaturated ketones of isolongifolene) of structural formula II.



from ϕ isolongifolene of structural formula I.



which comprises : (a) reacting isolongifolene with oxygen or air (auto-oxidation) in the presence of catalysts as herein described and basic materials as herein described at a temperature ranging from 80-130°C, for 40-80 hours; (b) filtering the oxidate to remove solids; (c) washing the oxidate with water; (d) fractionally distilling the oxidate to isolate unreacted isolongifolene and the α, β-unsaturated ketones and (e) separating the solid and liquid α, β-unsaturated ketones by filtration.

CLASS 98-I. 145736.

Int. Cl.-F24j 3/00.

IMPROVEMENTS IN OR RELATING TO A SOLAR WATER HEATER USED TO HEAT WATER FOR DOMESTIC REQUIREMENTS.

Applicant & Inventor : DR. ARUN SHRIPAD WAGH, CENTRE OF POST-GRADUATE INSTRUCTION & RESEARCH, UNIVERSITY OF BOMBAY), PANAJI GOA, INDIA.

Application No. 285/Bom/74 filed August 6, 1974.

Complete Specification left November 6, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims.

A solar water heater comprising a semi-cylindrical metallic dome (D) which is kept in a glass cage (G) and which is coated with a thin layer of nonglossy black paint on the outer surface exposed to the sun and which is welded to a square metallic tray (T) which is kept horizontally in a bath of saw dust or coir (C) and one side of which is fitted with an inlet pipe (I) and a 'ball and lever' arrangement to pour cold water into the tray to a required height of 5 cms. the other side of the dome (D) being connected with a U-shared vertical pipe forming a siphon (S), one end of which reaches to the bottom of the tray (T) to carry the water, when it is hot, to an insulated tank (R) kept below the tray, the tank (R) filled with an outlet pipe (O) from which hot water can be taken out whenever needed, the whole unit being air tight except for a valve (V_1) at the top of the dome (D) to bring fresh air into the dome, in case the air pressure inside drops down considerably during the suction of the water.

CLASS $64B_8$ & 76E. 145737.

Int. Cl.-F16b 5/00.

FASTENING AND LOCKING DEVICE.

Applicant : BUNKER RAMO CORPORATION, OF 900 COMMERCE DRIVE, OAK BROOK, ILLINOIS, UNITED STATES OF AMERICA, INCORPORATED IN THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors : LUCIEN LEON PECHARD AND BERNARD ANDRE LOGEROT.

Application No. 1334/Cal/76 filed July 27, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A fastening and locking device for securing and locking together two elements, including a male part on one of the elements and a receiving opening in the other of said elements,

the improvement wherein said male part comprises three flexible parallel blades having fixed ends connected to a common strap element and separated at their other ends, the middle blade terminating with a T-shaped portion which, in the rest position of the device lies in the plane of the two lateral blades and maintains a predetermined spacing between said two lateral blades, said other end of said middle blade being bendable out of the plane of said two lateral blades so as to move said T-shaped portion from between said lateral blades to allow a pinching together of the lateral blades toward each other, said lateral blades each comprising on their outer edges a locking shoulder which engages with the posterior surface of said receiving opening after insertion of said male part into said opening and said lateral blades return to their rest positions.

CLASS 127A. 145738.

Int. Cl.-F16d 1/10.

A COUPLING DEVICE.

Applicant & Inventor : HARDEV SINGH, OF 17, CAMAC STREET, CALCUTTA-700 017, INDIA.

Application No. 830/Cal/77 filed June 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A device adapted to selectively couple a drive member to a driven member comprising a male member held to the drive member, a female member held to the driven member consisting of, a flexible shaft, a coupling housing having a first engagements means and capable of having a rotational movement and, a second engagement means capable of having an axial movement either away or towards said first engagement means in order to effect a coupling or decoupling of the drive member with the driven member, by means of a selector actuator one of said engagement means causing a movement of said other engagement means, said selector actuator capable of causing a movement of one of the said engagement means.

CLASS $108C_3$ & 130F. 145739.

Int. Cl.-B22d 37/00.

METHOD OF MANUFACTURING REFRACTORY PLATES FOR SLIDING GATES.

Applicant : VSESOJUZNY GOSUDARSTVENNY INSTITUT NAUCHNO-ISSLED OVATELSKIKH I PROEKTNYKH RABOT OGNEUPORNOI PROMYSHLENNOSTI, OF LENINGRAD, NAB. MAKAROVA, 2, U.S.S.R.

Inventors : BORIS NIKOLAEVICH VOEVODIN, (2) IVAN VASILIEVICH GRIGORIEV (3) DMITRY IVANOVICH GAVRICH, (4) ALEXANDR KARLOVICH KARKLIT, (5) NIKOLAI DMITRIEBICH KARPOV (6) SERAFIM VASILIEVICH KOLPAKOV, (7) ALEXANDR AVGUSTOVICH KORTEL, (8) IURY VLADIMIROVICH MATERIKIN, (9) ALEXANDR MIKHAILOVICH POZHIVANOV, (10) LEONID ARONOVICH REINOV (11) VALENTIN KONSTANTINOVICH STURMAN and NIKOLAI MIKHAILOVICH FROLOVSKY.

Application No 715/Cal/77 filed May 12, 1977

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A method of manufacture of refractory plates for sliding gates comprising : manufacturing a base for each plate provided with a hollow or a through hole for the liner and made of a material whose coefficient of linear thermal expansion is equal to, or higher than that of the liner; separate moulding of the base and liner for each plate, the base being moulded under a lower pressure than the liner; calcination of the base and liner within a temperature interval of 1500-1750°C; impregnation of the liner with a carbon-containing substance; application of mortar to at least one of the contacting surfaces of the base and liner; placing the liner into the hollow or hole in the base; heat treatment of the plate at temperature from 180 to 600°C followed by grinding its sliding surface.

CLASS 86B. 145740.

Int. Cl.-A47c 17/00.

IMPROVEMENTS IN OR RELATING TO SOFA-CUM-BEDS.

Applicant & Inventor FAIZULLA ABDULKARIM NAGREE, OF 50, OLD CUSTOMS HOUSE ROAD, FORT, BOMBAY-400 001, MAHARASHTRA, INDIA.

Application No. 31/Bom/76 filed January 27, 1976

Complete specification left May 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims.

A sofa-cum-bed consists of a seating member and a backrest; the said seating member comprising an inner carriage and an outer carriage adapted to be inserted into each other, the said backrest comprising a hind part and front part fixed to each other by means of piano hinge; the front part of the said backrest being connected to the said inner carriage of the said seating member by means of rigid rods; a plurality of springs attached between the said hind and front parts of the said backrest, atleast one spring connected to the hind part of the backrest and arms provided on the sides of the backrest; adapted to keep the said hind and front parts of the backrest in close proximity with each other; 'T' shaped projections provided below the said inner carriage adapted to project below the said carriage towards the said backrest; triangular pieces provided below the said front part of the said backrest adapted to be aligned with the projecting parts of the said 'T' shaped projection pieces when the said front part of the backrest is aligned with the inner carriage of the said seating member; the arrangement being such that for conversion into a bed the said outer carriage is extricated from the said inner carriage of the said seating member, the said inner carriage being further pulled towards, the rigid rods connected to the said inner carriage and the said front part of the backrest drawing the said front part of the said backrest unfolding at the piano hinge and the two parts becoming horizontically aligned with the said carriages.

CLASS 127-I. 145741.

Int. Cl.-F16d 3/00.

IMPROVEMENTS IN OR RELATING COUPLINGS FOR POWER TRANSMISSION.

Applicant & Inventor : SHASHIKANT DAMODAR MALSHE 69, LAXMI SADAN, DR M B ROUT ROAD, DADAR, BOMBAY-400 028, STATE OF MAHARASHTRA, INDIA.

Application No. 137/Bom/76 filed May 4, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims.

A coupling for transmission of power comprising an assembly of two members, a male member consisting of a plurality of longitudinal concentric projections and a female member consisting of a plurality of grooves wherein rollers of rubber, plastic, leather or like compressible or flexible substances are embedded at either end of the said grooves, the said grooves being deeper than the length of the said projections on the male member, the said projections of the said male member adapted to fit between the said rollers in the said grooves; the male and the female members being respectively connected to the driving and the driven shaft or vice versa for the transmission of power from the driving shaft to the driven shaft through the coupling, the said rollers acting as an intermediary between the male and the female members of the coupling.

CLASS 69-I & 89. 145742.

Int. Cl.-H01h 35/34.

A PRESSURE INDICATOR.

Applicant : SUNDARAM-CLAYTON LIMITED, OF PADI, MADRAS-600 050, TAMIL NADU, INDIA.

Inventor : KRISHNASWAMY NARASIMHAN.

Application No. 135/Mas/76 filed July 24, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A pressure indicator comprising a housing provided with a port, one end of which is intended for entry of air or fluid from the said system; an actuating member and flexible diaphragm disposed within the housing, the diaphragm (provided with a plain, or substantially plain, surface exposed to the interior of the port) being fixed within the housing between the actuating member and the other end of the port; a pair of normally closed fixed and movable contacts disposed near the actuating member the movable contact being spring-loaded; and a third contact for connection to an external electrical alarm circuit through the spring, the actuating member having limbs projecting beyond the fixed contact, the arrangement being such that whenever the air pressure or fluid pressure within the port is above a given value the diaphragm flexes sufficiently to cause the actuating member to urge the movable contact away from the fixed contact, against the force by the spring, and complete the circuit through the spring and the third contact, to activate or deactivate, as the case may be, the alarm circuit.

CLASS 128-I. 145743.

Int. Cl.-A62b 31/00.

APPARATUS FOR ARTIFICIAL VENTILATION OF LUNGS.

Applicant & Inventors : VIKTOR DMITRIEVICH REMIZOV, OF KONDRATIEVSKY PROSPEKT 16/11, KV. 9, LENINGRAD, U.S.S.R. (2) BORIS DMITRIEVICH REMIZOV, OF ULITSA MAGNITOGORSKAYA 2, KV. 163, LENINGRAD, U.S.S.R. (3) BORIS ALEXANDROVICH PEREKHVATOV, OF BULVAR A. TOLSTOGO, 14, 60, PUSHKIN, U.S.S.R. & (4) VLADIMIR LVOVICH VANEVSKY OF KONAYA ULITSA 22/5, KV. 7, LENINGRAD, U.S.S.R.

Application No. 344/Cal/75 filed February 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

An apparatus for artificial ventilation of lungs, comprising compressed gas source; a unit including an injector, a safety pressure valve, a one way respiratory valve and a mask being connected through a pipe-line to said source for filling a patient's lungs with gas, a valve for cutting off the supply of gas through said pipe line; a means for periodically opening and closing said valve having continuous action pneumatic elements, which include a comparison element for comparing pneumatic signals, a regulator for regulating the operation threshold value of said comparison elements; and a unit for sawtooth filling and evacuation of the pneumatic chamber of said comparison element which unit includes throttle, an adjustable throttle, a biased repeater, a pneumatic tubular switch, a pneumatic relay and a controlled valve, connected to the supply line extending from the compressed gas source and to the comparison elements so that when the pneumatic pressure of the pneumatic chamber of the comparison element and the said sawtooth filling unit are equal, said comparison element closes said valve, thereby cutting off the supply of gas to the patient.

CLASS 136 M & H. 145744.

Int. Cl.-B30b 5/02; B29h 3/14; 11/00.

TIRE CURING PRESS CENTRE MECHANISM.

Applicant : MCNEIL CORPORATION, OF 96, EAST CROSIER STREET, AKRON, SUMMIT COUNTRY, OHIO 44311, U.S.A.

Inventors : JOHN EDWARD ATHEY.

Application No. 1929/Cal/75 filed October 8, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A centre mechanism for a tyre shaping and curing press comprising a piston rod carrying an upper bladder clamping ring, a lower bear ring for supporting the bead of an uncured tyre and carrying a lower bladder clamping ring, a bladder having beads sealingly engaged by said upper and lower bladder clamping rings to form a chamber for curing medium, a piston carried by said piston rod, a cylinder medium, a piston carried by said piston rod, a cylinder casing housing said piston and a portion of said piston rod, sealing means in said cylinder casing engaging said piston rod, a first chamber in said cylinder casing on one side of said sealing means communicating with the chamber formed in said bladder, a second chamber in said cylinder casing on the other side of said sealing means in which said piston is housed, and means for supplying fluid to the second chamber to control the position of said piston therein while maintaining the fluid isolated from the curing medium.

CLASS 181. 145745.

Int. Cl.-F16j 15/00.

SHAFT SEAL.

Applicant : BBC BROWN BOVERI & COMPANY LIMITED, OF BADEN, SWITZERLAND.

Inventor : GEORG LARJEN.

Application No. 2110/Cal/75 filed November 4, 1975.

Convention date September 26, 2975/(39596/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A shaft seal comprising a plurality of segments circumferentially suspended within a support therefore to define a shaft receiving opening, the segments being disposed in abutting relationship and being individually displaceable in a radical direction; each segment comprising a suspension component by which it is suspended in the support, a serrated seal portion which is disposed to confront a shaft which, in service of the seal extends through the opening and an intermediate portion which adjoins the suspension component and the serrated seal portion, the shaft (5) being provided with staked seal strips (6) arranged between each of two neighbouring serrations (4) of the serrated seal portion, the median portion of the serrated seal portion being offset with respect to the median portion of the intermediate portion in the axial direction of the shaft receiving opening.

CLASS 190B. 145746.

Int. Cl.-F01d 1/00.

COMBINED STOP AND CONTROL VALVE FOR TURBINE INSTALLATION.

Applicant : BBC BROWN, BOVERI & COMPANY LIMITED, OF BADEN, SWITZERLAND.

Inventor : ARTHUR OBERLE.

Application No. 355/Cal/76 filed February 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A combined stop and control valve for mounting in the pipes carrying the working medium of turbomachines, of which the stop valve body and control valve body are arranged independently of each other in a common valve housing, the valve bodies being provided with coaxial valve seats located next to each other and immediately at a flow opening, in which the stop valve body (21) is in the form of a bell into the hollow cavity of which the control valve body (11) is

inserted, both the stop valve body (21) and the control valve body (11) being provided with at least one axial guide (16, 31), and the stop valve (20) is situated before the control valve (7) when viewed in the flow direction.

CLASS 190B. 145747.

Int. Cl.-F01d 1/00.

COMBINED STOP AND CONTROL VALVE FOR TURBINE INSTALLATION.

Applicant: BBC BROWN, BOVERI & COMPANY, LIMITED, OF BADEN, SWITZERLAND.

Inventors: ARTHUR OBERLE, AND GUNTER KUDERNATSCH.

Application No. 356/Cal/76 filed February 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A combined, stop and control valve for turbine installations, in particular for steam turbine installations, the stop and control valve bodies of which are arranged coaxialy to one another in a common housing and can be controlled independently of each other, in which the control valve (3) is located downstream from the stop valve (2) and opens in the direction of the steam flow, and the control valve body (22, 22!) is in the form of a relieving or servo piston.

CLASS 110. 145748.

Int. Cl.-D04b 25/08.

PATTERN DEVICE FOR PILE KNITTING MACHINES.

Applicant VEB WIRKMASCHINENBAU KARL-MARX-STADT, OF 90 KARL-MARX-STADT, ANNABERGER STRASSE 73, GERMAN DEMOCRATIC REPUBLIC.

Inventor: HEINZ LINDNER MEISTER.

Application No. 418/Cal/76 filed March 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Pattern device for pile knitting machines, especially for the production of jacquard patterned pile loop fabrics on crochet galloon machines with one row of needles, one weft wheel and multiple pile thread guides shiftable between the needles, to each of which guides is assigned a thread selection sinker controlled according to pattern, the thread delivery orifices on the multiple pile thread guide being provided approximately parallel to the longitudinal axis of the needles, characterized thus, that the thread selection sinkers are mounted on a vertically movable bar approximately in the middle and rotatable about their longitudinal axis, and that their upper ends can be laterally placed on distance pieces, which are assignable according to pattern, so that their other ends can each be assigned selectively to one of the thread delivery orifices of the multiple pile thread guide, and that the thread selection sinkers are arrestable in the respective oriented position by controllable means of detent that are common to all thread selection sinkers.

CLASS 15-D. 145749.

Int. Cl.-F16c 35/00.

BEARING MOUNT.

Applicant: TRIBOTECH, OF 1650 BROADWAY, REDWOOD CITY, CALIFORNIA-94063, UNITED STATES OF AMERICA.

Inventors: EARL SMITH CAIN: JEROME ALBERT CARLSON & GEORGE EDWIN GOODRICH.

Application No. 584/Cal/76 filed April 2, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A bearing mount comprising: a flange plate having a bearing receiving flange extending outwardly of one face thereof and adapted to receive and hold a bearing therein, the other face of said flange plate defining a mounting surface substantially perpendicular to the axis of said flange for positioning said bearing mount on a supporting surface; at least one side plate extending laterally from said one face adjacent said flange, the surface of said side plate remote from said flange defining a second mounting surface substantially parallel to the axis of said flange; and said flange plate and side plate having means whereby either of said mounting surfaces may be secured to a supporting surface.

CLASS 195B & D. 145750.

Int. Cl.-F16k 51/00.

CONTROL VALVE FOR MOUNTING IN THE PIPES CARRYING THE WORKING MEDIUM OF TURBOMACHINES, IN PARTICULAR STEAM TURBINES.

Applicant: BBC BROWN, BOVERI & COMPANY LIMITED, OF BADEN, SWITZERLAND.

Inventor: MARTIN SCHWARZ.

Application No. 1382/Cal/76 filed August 3, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A control valve for mounting in the pipes carrying the working medium of turbomachines, in particular steam turbines, the said valve having a valve spool which is slidable in a spool guide along the axial direction of a valve casing, the valve casing having an entry chamber an exit chamber a valve seat chamber within an inlet collar, a main flow path a plurality of by-pass ducts each extending to the valve seat chamber, and at least one by-pass entry duct which communicates with at least some of the by-pass ducts, which by-pass entry duct branches from a rotationally symmetrical portion of the main flow path which has as generatrices the boundry line of the inlet collar, the external boundary line of the spool guide, the shortest conecting line between the above-mentioned boundary lines, and a prolongation of the surface line of the valve seat chamber, the entry port of the by-pass entry duct being situated in a convexly curved part of the inlet collar.

CLASS 33A & H. 145751.

Int. Cl.-B22d 17/00.

MACHINE FOR CASTING UNDER LOW PRESSURE OR UNDER COUNTERPRESSURE.

Applicant: INSTITUTE PO METALOZNANIE I TECHNOLOGIA NA METALITE OF 53, CHAPAEV STR., SOFIA, BULGARIA.

Inventors: ANGEL TONCHEV BALEVSKI, IVAN DIMOV NIKOLOV, & ASPARUH MIHAYLOV ANTONOV.

Application No. 1976/Cal/76 filed October 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A machine for casting under low pressure or under counterpressure fed by one basic, hermetically sealed crucible with molten metal, disposed outside the outline of the machine, this cruvible being connected by means of control members to a reservoir for reusable inert gas, wherein for direct feeding of the casting mould with molten metal there is provided an intermediate cruvible, disposed outside the outline of the machine, connected through its bottom end by means of a syphon-type metal conduit to the casting mould and in its upper end-by means of a second metal conduit to the basic crucible for molten metal, and the inlet orifice of the second metal conduit is opened and closed by a controllable gas-tight gate, while the upper elbow of the syphon-type metal conduit is provided with a gas cushion and lies in a level close to the inlet of the casting mould, while the bottom elbow of the

syphon-type metal conduit which is disposed under the casting mould is provided with a stopper valve, and all these element of the construction are hermetically closed and fed with reusable inert gas by means of control members arranged individually in the upper spaces of the intermediate crucible and the basic crucible and are connected to a known gas system for inert gas.

OPPOSITION PROCEEDINGS

An opposition has been entered by the Indian Plywood Manufacturing Company Limited to the grant of a patent on application No. 144155 made by Barnagore Jute Factory Company Limited.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Notice is hereby given that the claim made by Indian Jute Industries Research Association under Section 20(1) of the Patents Act, 1970, to proceed the application for Patent No. 142180 (975/Cal/1976) in their name has been applied.

CORRECTION OF CLERICAL ERRORS UNDER SECTION 78(3)

(1)

The title of the invention in the application and specification and also opening description of the specification of application for patent No. 141797 (earlier numbered as 801/Cal/74), the acceptance of the complete specification of which was notified in Part III, Section 2, of the Gazette of India dated the 23rd April, 1977, has been corrected to read as "Scraping member for a pelletizing disc or pan and a method of operating a pelletizing disc or pan", under Section 78(3) of the Patents Act, 1970.

(2)

The title of the invention in the application and specification and also the opening description of the specification of application for patent No. 141916, (earlier numbered as 1178/Cal/74), the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 30th April, 1977 has been corrected to read as "A finishing process for leather and leather substitutes and leather or leather substitutes thus obtained" under Section 78(3) of the Patents Act, 1970.

(3)

The title of the invention in the application, specification and also the opening description of application for patent No. 142271 (earlier numbered as 1367/Cal/74) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 18th June, 1977 has been corrected to read as "Polymeric material photodegradable upon disposal by exposure to ultraviolet radiation to sunlight and microbially consumable packaging material made from the same" under Section 78(3) of the Patents Act, 1970.

(4)

The title of the invention in the application and specification of patent application No. 142426 (earlier numbered as 2294/Cal/74), the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 9th July, 1977, has been corrected to read as "A method and a device for firing an electric detonator in response to a pressure signal and a detonator assembly thus produced" under Section 78(3) of the Patents Act, 1970.

(5)

The title of the invention in the application and specification of Patent application No. 142939 (earlier numbered as 497/Cal/75) the acceptance of the complete specification of which was notified in Part III, Section 2 of the Gazette of India dated the 10th September, 1977 has been corrected to read as "A channel culture apparatus for plants" under Section 78(3) of the Patents Act, 1970.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot 8, Hastings Street, Calcutta, at two rupees per copy :—

(1)

116210 116294 116311 116336 116377 116379 116438 116441
116442 116443 116476 116485 116535 116584 116597 116611
116673 116796 116897 117010 117365 117523 117661 117671
117686 117769 117788 117799

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PATENTS SEALED

142207 142789 142966 143267 143279 143298 143312 143348
143351 143355 143359 143378 143379 143508 143521 143534
143536 143539 143627 143628 143629

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No. & Title of the invention

114864 (20-4-72) Process for preparation of basically substituted cyclopentyl phenol ether.

116943 (20-4-72) Improvements in the process for manufacture of 6-aminopenicillanic acid.

121134 (20-4-72) Process for preparation of 2, 3, 5, 9 b-tetrahydro-1 H-[2, 1-a] isoindol-5-01s.

121683 (20-4-72) Process for production of aquous solution for parenteral and topical use of doxycycline.

123540 (20-4-72) Proces for preparing 1-(3-cyano-3, 3-diphenylpropyl)-4-phenyl-isonipecotic acid and therapatic active addition salts thereof.

124953 (20-4-72) Process for the preparation of derivative of 1-piperazine acetic acid.

127245 (20-4-72) Aspargine production.

130161 (20-4-72) Process for the synthesis of substituted quinoxalin-4-ones.

130394 (20-4-72) Process for the preparation of furan carboxylic acid pyridylamides having pharmacological action.

133597 (20-4-72) Improvements relating to production of 4-asparaginase.

134863 (20-47-2) Process for preparing racemic and oplically active 1-(2, 5-dichlorophenoxy)-3-tert. butyl amino-2-propanol and salt thereof.

136193 (30-10-72) Improvement in manufacture of sugar.

136274 (21-3-72) Process for producing N-phosphomethyl-glycine.

136290 (14-3-73) Process for preparation of thiocarbamic acid derivatives.

136474 (15-5-72) Process for manufacture of carbon di sulfide.

136475 (30-10-72) Method for preparing 1, 4-dicyanobutenes.

RENEWAL FEES PAID

90262 90780 90819 91515 96392 96425 96449 96460 96589 96648 96982 96987 101914 102407 102537 102557 102699 102700 102712 107907 107944 108062 108069 108253 108566 108648 109048 111576 112597 113098 113099 113100 113200 113209 113256 113329 113383 113692 114233 114534 115689 115690 116330 117879 118430 118451 118455 118456 118469 118606 118631 118685 118753 118796 118848 118879 118925 119053 119063 119080 122728 123852 123909 123914 123928 124008 124037 124038 124074 124187 124188 124202 124235 124330 124630 126221 129043 129058 129123 129239 129378 129383 129386 129400 129410 129415 129438 130310 131313 131315 131316 131349 131350 131502 133284 133451 133452 133453 133454 133482 133483 133490 133504 133527 133530 133534 133595 133625 133683 133717 133733 133797 133799 133810 133928 133997 134312 134825 135201 135624 136032 136101 136466 136581 136803 136814 136853 137369 137447 137526 137686 137858 137939 138043 138097 138522 138644 138645 138650 138651 138868 138960 139014 139119 139550 140110 140176 140182 140250 140461 140498 140669 140714 141213 141230 141255 141293 141445 141453 141586 141724 141772 141821 141822 141882 142064 142066 142238 142453 142581 142690 142750 142782 142905 143000 143068 143078 143096 143116 143130 143170 143176 143183 143185 143239 143278 143281 143381 143423

CESSATION OF PATENTS

116720 116721 116723 116736 116738 116748 116750 116751 116777 116780 116782 116783 116785 116786 116792 116816 116817 116825 116846 116872 116875 116881 116883 116911 116929 116933 116938 116946 116948 116959 116974 116990 116995 116998 117004 117008 117030 117031 117047 117106 117116 117118 117145 117157 117158 117180 118632 114504 129180

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 113302 granted to Abludu Ramarao Narayana Rao for an invention relating to "improvements in guy tighteners used on power lines and telegraph lines and allied uses". The patent ceased on the 24th Nov. 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section dated the 21st Oct. '78.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 16th February 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 129793 granted to Narala Tatarao for an invention relating to "prestressed cement concrete poles having a fish plate type joint". The patent ceased on the 20th September 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th October 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 9th February 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 129794 granted to Narala Tatarao for an invention relating to "A horn gap fused and isolating switch assembly used in electrical overhead transmission lines". The patent ceased on the 20th September 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III Section 2 dated the 7th October 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 9th February 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 129795 granted to Narala Tatarao for an invention relating to "A prestressed cement concrete pole having a flanged joint". The patent ceased on the 20th September 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th October 1978.

Any interested person may give notice of opposition to the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 9th February 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application has been made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 132983 granted to Kalyan Kumar Banerjee for an invention relating to "Improvements in or relating to light-weight aggregates for concrete". The patent ceased on the 21st September 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 14th October 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 9th February 1979 under Rule 69 of the Patents Rules, 1972. A

written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 137606 granted to Gould Inc., for an invention relating to "method of forming a composite bearing structure". The patent ceased on the 8th Nov. 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section dated the 7th October 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 16th February 1979 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of Designs included in the entry.

COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design No. 145185	Class 1.
Design Nos. 141276, 141300, 141451, 141469 141504, 141505, 141519, 141520 141521, 141531, 145097, 145701	Class 3.
Design No. 141528.	Class 5.
Design Nos. 141296, 141297 141298.	Class 12.

COPYRIGT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design No. 145185	Class 1.

Name Index of Applicants for Patents for the month of September 1978 (No. 961/Cal/78 to 1079/Cal/78; 264/Bom/78 to 292/Bom/78; 146/Mas/78 to 181/Mas/78 and 649/Del/78 to 710/Del/78).

Name & Appln. No.

(A)

AB Svenska Maskinverken.—997/Cal/78.

Ahmedabad Textile Industry's Research Association (Atira).—264/Bom/78.

Aktieselskabet De Denske Sukkerfabrikker.—1075/Cal/78.

Alfa-Laval Aktiebolag.—1045/Cal/78.

Aluminium Pechiney.—659/Del/78.

American Cyanamid Company.—1035/Cal/78.

Anand (Brothers), K.V.—709/Del/78.

Anantharaman, D.—152/Mas/78.

Antony, J.F.—1070/Cal/78.

Asar, V.P.—270/Bom/78.

Atlantic Richfield Company.—1004/Cal/78.

Augspurger, L.L.—981/Cal/78.

Automotive Products Limited.—676/Del/78, 694/Del/78, 983/Cal/78.

(B)

BASF Aktiengesellschaft.—993/Cal/78.

Bai, T.I.—151/Mas/78.

Balasubramaniam, S.—177/Mas/78.

Barnes, C.E.—651/Del/78.

Bayer Aktiengesellschaft.—668/Del/78, 669/Del/78.

Bechtel International Corporation.—990/Cal/78.

Beloit Walmsley Limited.—650/Del/78.

Bennett, J.—177/Mas/78.

Bhel, D.N.—672/Del/78, 673/Del/78.

Blacke-Durr AG.—1048/Cal/78.

Bombay Textile Research Association, The.—288/Bom/78.

Boots Company Limited, The.—1066/Cal/78.

Bose, M. (Mrs.)—1026/Cal/78.

Brakes India Limited.—178/Mas/78, 179/Mas/78, 181/Mas/78.

Bunker Ramo Corporation.—1007//Cal/78, 1025/Cal/78, 1051/Cal/78, 1071/Cal/78.

(C)

Canron Corp.—675/Del/78.

Caterpillar Tractor Co.—1030/Cal/78.

Chang, P.C. (Pei-Ching).—1002/Cal/78.

Chashnik, P.I.—1070/Cal/78.

Chaudhari, R.G.—146/Mas/78.

Chemie Linz Aktiengesellschaft.—708/Del/78.

Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt.—1053/Cal/78; 1054/Cal/78; 1055/Cal/78; 1056/Cal/78; 1057/Cal/78; 1058/Cal/78; 1059/Cal/78; 1060/Cal/78.

Chloride Silent Power Limited.—657/Del/78.

Clay, R.B.—1022/Cal/78.

Colour Chem Limited.—286/Bom/78; 287/Bom/78.

Combustion Engineering, Inc.—1003/Cal/78; 1052/Cal/78.

Council of Scientific and Industrial Research.—656/Del/78.

(D)

DE Beers Industrial Diamond Division (Proprietary) Limited.—660/Del/78.

DSO "Chorna Metalurgia".—989/Cal/78.

Dandekar, S.R. (Mrs.)—274/Bom/78.

Davidson, R.—1016/Cal/78.

De, A.K. (Dr.)—266/Bom/78.

Deccan Sugar Institute.—289/Bom/78.

Development Consultants Private Limited.—1006/Cal/78.

Diafil International S.A.—1047/Cal/78.

Diamond Shamrock Corporation.—1024/Cal/78.

Dikshit, P.K.—283/Bom/78.

Director, Central Council for Research in Indian Medicine and Homoeopathy The.—688/Del/78.

Director General, Research Designs & Standards Organisation, The.—671/Del/78.

Dobson Park Industries Limited.—683/Del/78.

Dorr-Oliver Incorporated.—707/Del/78.

(E)

E.I. DU Pont De Nemours and Company,—1073/Cal/78.
E.R. Squibb & Sons Inc.—678/Del/78.
E.R. Squibb & Sons Inc.—678/Del/78; 679/Del/78; 680/Del/78; 681/Del/78.
Elpro International Limited.—273/Bom/78; 291/Bom/78.

(F)

Fertilisers and Chemicals, Travancore Limited, The.—171/Mas/78.
Freiberg, B.—1028/Cal/78.

(G)

GAF Corporation.—1005/Cal/78.
Ganguli, S.K.—1015/Cal/78.
General Electric Company.—1027/Cal/78.
General Tire & Rubber Company, The.—677/Del/78.
Gharda Chemicals Private Limited.—280/Bom/78.
Godrej Soaps Limited.—281/Bom/78; 282/Bom/78.
Golwalkar, S.V.—266/Bom/78.
Govindarajulu, R.N.—180/Mas/78.
Grisbach, H.T.—1074/Cal/78.
Gulf Research & Development Company.—1062/Cal/78; 1063/Cal/78.

(H)

Halliburton Company.—662/Del/78.
Hindustan Lever Limited.—265/Bom/78.
Hindustan Machine Tools Ltd. The.—153/Mas/78; 154/Mas/78; 155/Mas/78; 156/Mas/78; 157/Mas/78; 158/Mas/78; 159/Mas/78; 160/Mas/78; 161/Mas/78; 162/Mas/78; 163/Mas/78; 164/Mas/78; 165/Mas/78; 166/Mas/78; 167/Mas/78; 168/Mas/78.
Hoesch Werke Aktiengesellschaft.—995/Cal/78.
Hoechst Aktiengesellschaft.—970/Cal/78; 1014/Cal/78; 1067/Cal/78.
Huttenes-Albertus, Chemische Werke GmbH.—964/Cal/78; 965/Cal/78; 966/Cal/78.

(I)

Imperial Chemical Industries Limited.—653/Del/78.
Indian Cable Company Limited, The.—1031/Cal/78; 1032/Cal/78.
Indian Explosives Limited.—974/Cal/78.
Indian Petrochemicals Corporation Limited.—268/Bom/78.
Insulock Corporation.—1033/Cal/78.
Ion Exchange (India) Limited.—276/Bom/78.
Iyer, S.G.—170/Mas/78.

(J)

Jain, R.K.—667/Del/78.
James W. Gardner Enterprises, Inc.—992/Cal/78.
Jason La-Z-Boy Chair Company Pty. Ltd.—1050/Cal/78.
Jetex Carburettors Private Limited.—271/Bom/78.

(K)

Kadi-Ogly, O.A.—1070/Cal/78.
Kang, J.S.—695/Del/78; 696/Del/78.
Kher, R.N.—704/Del/78; 705/Del/78.
Klockner-Humboldt-Deutz Aktiengesellschaft.—702/Del/78.
Kumar, A. (Mrs.)—275/Bom/78.

(L)

LE Material Telephonique.—670/Del/78.
Licinvest AG.—1038/Cal/78; 1039/Cal/78; 1040/Cal/78, 1041/Cal/78; 1042/Cal/78; 1043/Cal/78 1044/Cal/78.
Lilly Industries Limited.—961/Cal/78.
Lin, S. B-T (Bing-Tang).—1009/Cal/78.
Lindauer Dornier Gesellschaft MBH.—674/Del/78.
Little, D.C.—690/Del/78.
Little, F.A.—690/Del/78.
Litton Systems, Inc.—1021/Cal/78.
London Laboratories Limited, Co.—1072/Cal/78.
Lubrizol Corporation, The.—967/Cal/78; 972/Cal/78.
Lucas Industries Limited.—996/Cal/78.

(M)

Macgregor International S.A.—982/Cal/78.
Macneill & Magor Limited.—1017/Cal/78; 1018/Cal/78.
Malhotra, V.V.—285/Bom/78.
Maruzen Oil Co. Ltd.—1037/Cal/78. 1000/Cal/78; 1061/Cal/78.
Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft.—
Matsuyama Petrochemicals Inc.—1037/Cal/78.
Mehra, B.—654/Del/78; 655/Del/78; 665/Del/78; 682/Del/78; 698/Del/78; 700/Del/78.
Menon, C.R.B.—292/Bom/78.
Metal Box Limited.—1001/Cal/78; 1023/Cal/78.
Metallgesellschaft A.G.—1029/Cal/78; 1034/Cal/78.
Miner Enterprises, Inc.—1079/Cal/78.
Misra, L.N.—663/Del/78; 687/Del/78.
Mitra, A.K.—973/Cal/78.
Modak, S.D.—272/Bom/78.
Monsanto Chemicals of India Limited.—284/Bom/78.
Mudur, S.P.—279/Bom/78.

(N)

Nadgauda, A.S.—290/Bom/78.
National Industrial Development Corporation, The.—664/Del/78.
National Research Development Corporation.—988/Cal/78.
Nisshin Steel Co. Ltd.—986/Cal/78; 987/Cal/78.

(O)

Oommen, G.P.—174/Mas/78.
Orissa Cement Limited.—1019/Cal/78.

(P)

Padmanabha, M.G.—173/Mas/78.
Pandey, R.—999/Cal/78.
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Pandit, G.P.—149/Mas/78.
Pardhy, S.D.—269/Bom/78.
Paszner, L.—1002/Cal/78.
Perchanok, B.K.—1070/Cal/78.
Personal Products Company.—971/Cal/78.
Pfizer Inc.—649/Del/78.
Pilkington Brothers Limited.—1078/Cal/78.
Pitchumani, K.—169/Mas/78.
Plastic Reel Corporation of America.—1077/Cal/78.
Pont-A. Mousson S.A.—701/Del/78.
Price, A.—980/Cal/78.
Price, E.A.—980/Cal/78.
Proizvodstvennoe Obiedinenie "Uralelektrotyazhmash", and —963/Cal/78.

Projektierung Chemische Verfahrenstechnik GmbH.—1036/Cal/78.

Purolator India Limited.—699/Del/78.

(Q)

Q. Corporation.—706/Del/78.

(R)

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Rasa Trading Co., Ltd.—979/Cal/78.

Rao, P.S.—172/Mas/78.

Rheinmetall GmBH.—962/Cal/78.

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(S)

"S.A. PRB".—968/Cal/78.

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Sanyal. S.N.—975/Cal/78.

Sarabhai Research Centre.—267/Bom/78.

Sardesai, S.G.—266/Bom/78.

Sarkar, M. (Dr.)—994/Cal/78.

Savio & C.S. P.A.—998/Cal/78.

Schlumberger Overseas, S.A.—1046/Cal/78.

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Sentralinstitutt for Industriell Forskning.—661/Del/78.

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Shaw Wallace & Company Limited.—174/Mas/78.

Shell Internationale Research Maatschappij B.V.—689/Del/78.

Shell Oil Company.—969/Cal/78.

Shri A. M. M. Murugappa Chettiar Research Centre. (Photosynthesis and Energy Division).—175/Mas/78.

Siemens Aktiengesellschaft.—984/Cal/78; 985/Cal/78.

Singh, S.—697/Del/78.

Snamprogetti S.P.A.—1008/Cal/78.

Societa Nazionale Industria Applicazoini Viscosa S.p.A.—1010/Cal/78.

Societe DE Paris ET DU Rhone.—977/Cal/78.

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Societe D' Etude Et D' application Industrielle De Brevets (SEAB).—1068/Cal/78.

Sodetal, Societe Pour LE Development Du Fil Metallique.—666/Del/78.

Sridhara, B.N.—176/Mas/78.

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Stanadyne, Inc.—1049/Cal/78.

Stauffer Chemical Company.—1012/Cal/78; 1076/Cal/78.

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(T)

Tata Hydro-Electric Power Supply Co. Ltd. The.—277/Bom/78.

Thapar, R.S.—685/Del/78.

Thomas Broadbent & Sons Limited.—710/Del/78.

Toyama Chemical Co. Ltd.—1020/Cal/78.

Triomf Fertilizer (Proprietary) Limited.—703/Del/78.

(V)

Varughese, P.G.—148/Mas/78.

Venugopalan, K.V.—709/Del/78.

Vereinigte Osterreichische Eisen1Und Stahlwerke-Alpine Montan Aktiengesellschaft.—1069/Cal/78.

Viljanmaa, A.K.—976/Cal/78.

Visvanathan, T.R.—177/Mas/78.

Vsesojuzny Elektrotekhnichesky Institut Imeni V.I. Lenina.—963/Cal/78.

(W)

Wakankar, L.S.—279/Bom/78.

Weatherford/Lamb, Inc.—978/Cal/78.

Weka-Handelsgesellschaft m.b.H.—991/Cal/78.

Wiking, L.—658/Del/78.

Wishart, J.D.—684/Del/78.

(Y)

Youdelis, W.V.—691/Del/78; 692/Del/78; 693/Del/78.

S. VEDARAMAN,
Controller-General of Patents, Designs & Trade Marks.

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